

RECEIVED
CENTRAL FAX CENTERSerial No. 10/700,065 **OCT 15 2007** Page 2IN THE CLAIMS:

1. (Currently Amended) A semiconductor memory comprising:
a controller;
a media including first information, said first information including timing information; and
first read/write mechanism including an electron field emitter, configured to read the first information;
wherein the controller is configured to receive a first signal generated in response to the first information being read, and wherein the controller is configured to generate a second signal configured to cause a position of the media to be adjusted relative to the electron field emitter in response to the first signal, said controller including means for comparing the amplitudes of signals detected from information stored in a first region on said media to signals detected from information stored in a second region on said media to generate said second signal.
2. (Original) The memory of claim 1, wherein the first information comprises position information.
3. (Canceled)
4. (Currently Amended) The memory of claim 3 1 further comprising:
a mover configured to adjust the position of the media relative to the first read/write mechanism in response to the second signal.
5. (Original) The memory of claim 4 further comprising:
a second read / write mechanism configured to read second information from the media;

Serial No. 10/700,065Page 3

wherein the mover is configured to adjust the position of the media relative to the second read / write mechanism in response to the second signal.

6. (Original) The memory of claim 1 wherein the controller is configured to generate a third signal configured to cause a timing window to be generated in response to the first signal.

7. (Original) The memory module of claim 6 further comprising:
a read / write mechanism configured to read second information from the media during the timing window.

8. (Original) The memory module of claim 6 further comprising:
a read / write mechanism configured to write second information to the media during the timing window.

9. (Currently Amended) A method of reading information from a semiconductor storage device comprising:
reading first information from a media in the semiconductor storage device;
generating a first signal in response to reading the first information; and
generating comparing the amplitudes of signals detected from said first information stored in a first region on said media to signals detected from first information stored in a second region on said media to generate a second signal using the first signal, the second signal configured to cause second information to be read from the media during a first time period.

10. (Original) The method of claim 9 further comprising:
reading the second information from the media during the first time period.

11. (Original) The method of claim 9 further comprising:

Serial No. 10/700,065Page 4

reading the first information from a first cluster on the media; and
reading the second information from a second cluster on the media during the
first time period.

12. (Original) The method of claim 9 wherein the second signal is configured
to cause third information to be written to the media during a second time period.

13. (Original) The method of claim 12 further comprising:
writing the third information to the media during the second time period.

14. (Previously Presented) The method of claim 9 further comprising:
reading the first information from a first cluster on the media; and
writing a second information to a second cluster on the media during the
second time period.

15. (Original) The method of claim 9 further comprising:
generating a third signal using the first signal, the third signal configured to
cause a position of the media to be adjusted relative to a read / write mechanism.

16. (Currently Amended) ~~An atomic-resolution~~ A storage device comprising:
a media that includes a first cluster and a second cluster, the first cluster
including first information;

first means for generating timing information in response to reading the first
information, said first means including means for comparing the amplitudes of signals
detected from said first information stored in a first region on said media to signals
detected from said first information stored in a second region on said media; and
second means for writing second information in the second cluster using the
timing information.

Serial No. 10/700,065Page 5

17. (Original) The storage device of claim 16 further comprising:
third means for reading third information from the second cluster using the
timing information.

18. (Original) The storage device of claim 16 further comprising:
third means for generating position information in response to reading the first
information; and
fourth means for adjusting the media relative to the second means in response
to the position information.

19. (Original) The storage device of claim 18 wherein the second cluster
includes a plurality of patches, wherein each of the plurality of patches includes a
plurality of tracks, and wherein the second means is for writing the second information
to one of the plurality of tracks.

20. (Original) The storage device of claim 19 wherein the position information
indicates a position of the second means relative to the one of the plurality of tracks.

21. (Original) The storage device of claim 20 wherein the fourth means is for
adjusting the media relative to the second means in response to the position
information to align the second means with a center of the one of the plurality of
tracks.

22. (Currently Amended) ~~An atomic-resolution~~ A storage device comprising:
a media including servo information, said servo information including timing
information;
a field emitter associated with the media, configured to read the servo
information;

Serial No. 10/700,065Page 6

a controller configured to receive a first signal generated in response to the servo information being read, the controller being configured to generate a second signal, said controller including an amplitude comparator for comparing the amplitudes of signals detected from said timing information stored in a first region on said media to signals detected from said timing information stored in a second region on said media; and

a mover configured to adjust the position of the media relative to field emitter in response to the second signal.

23. (Original) The storage device of claim 22, further comprising:
a second field emitter configured to read second servo from the media; and
wherein the controller is configured to adjust the position of the media relative to the second field emitter in response to the second signal.

24 – 35. (Canceled)

36. (Currently Amended) A method for storing and retrieving information including the steps of:

providing semiconductor media for storing and retrieving data;

providing a read/write mechanism movable relative to said media for writing data to and reading data from said media;

storing read/write servo information on said media for controlling a position of said read/write mechanism or timing said read/write mechanism; and

using said read/write servo information to control the position and/or timing of said read/write mechanism relative to said media including the step of comparing the amplitudes of signals detected from said first information stored in a first region on said media to signals detected from said first information stored in a second region on said media.

Serial No. 10/700,065Page 7

37. (New) A system for accessing data stored on a medium comprising:
means for reading first information from first and second regions on said
medium;
means for generating a first and second signals in response to reading the first
information in said first and second regions respectively; and
means for comparing the amplitudes of signals detected from said first
information stored in said first region on said medium to signals detected from first
information stored in said second region on said medium to generate a second signal.